

**ONKYO**

Audio/Video Products 2016–2017

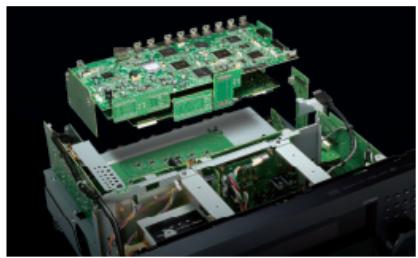


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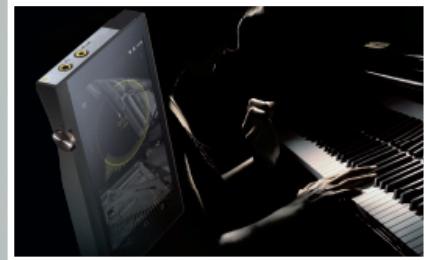
[www.eu.onkyo.com](http://www.eu.onkyo.com)

# A Seachange in Sound



Featuring Next-Generation Object-based Audio  
for a Multidimensional Film Experience

Onkyo's approach to audio goes beyond high fidelity. We seek to reveal the emotion and atmosphere within a recording in a way that moves you. By combining high current with noiseless processing, vitality is returned to music. That was our mission 70 years ago, when founder Takeshi Godai developed the first non-pressed cone woofer, and so it remains today. As passionate music lovers, our research and development is guided by human intuition and by human ears. Together with our industry partners, we've kept the soul of sound alive while staying ahead of the technology curve, introducing high-value features that make life simpler and better. If the product's wearing an Onkyo badge, then you know it's been designed with love, for pure love of sound.



# Hear Every Detail, Feel Every Emotion

Onkyo A/V receivers deliver all the dynamics and detail of next-generation film soundtracks and Hi-Res Audio for

- an enthralling entertainment experience. Custom componentry, such as massive transformers and audio-grade capacitors,
- provide high current for lightning-fast wide-spectrum dynamics. Discrete amp circuits prevent phase shifting to maintain a detail-rich and cohesive audio image, and display effortless composure at floor-shaking volumes.

## Dynamic Audio Amplification



### Hi-Current Capability

A massive customized High Current Power Supply and huge capacitors deliver a higher current flow than other products. More current grips large speaker cones for precise and agile sound reproduction.

### Non-Phase-Shift Amplifiers

Original amp circuits ensure that sounds of different frequencies arrive at your ears at exactly the same time. Accurate phase alignment lets your speakers present a well-focused and richly detailed audio image.

### VLSC™ Processing

Vector Linear Shaping Circuitry (VLSC) analyzes the audio signal during D/A conversion and filters out pulse noise inevitably generated by the DAC. Fine textures and details are unveiled in spectacular clarity.

### Why Upgrade to the RZ Series?

Our flagship RZ Series takes film and music to the next level. Every design element, from separated circuitry to upgraded custom audio componentry, contributes to full-scale reproduction to 5 Hz with fathomless driving power to fill large rooms at THX®-certified Cinema Reference Volume.

## For the Ultimate in Flagship-Quality Object-based Sound

### PR-RZ5100

11.2-Channel Network A/V Controller

New for  
2016

BLACK

- THX® Ultra2™ Plus Cinema-Reference Audio Performance
- 7.2.4-channel DTS:X™ and Dolby Atmos® Object-based Audio Decoding
- DTS Neural:X™ Upmixes Standard 5.1 and 7.1 Formats to 3D Sound
- Customized and Shielded Low-Hum Transformer and Separate Transformer for Standby
- VLSC™ (Vector Linear Shaping Circuitry) Noise-free Signal Processing for All Channels
- Wireless Audio Streaming with Google Cast™, AirPlay®, Wi-Fi®, and Bluetooth®
- Onkyo Controller App for iOS and Android™\*
- AccuEQ Room Calibration with AccuReflex Phase-Matching Technology
- FireConnect™ Multi-Room Wireless Technology
- HDMI® 8 In (1 Front), Main Out, Zone 2 Out (HDCP 2.2/HDR\*)<sup>2</sup>
- Whole House Mode Function
- 11.2 Multichannel and XLR Pre-Outs for Amplifier Connection
- Separate 384 kHz/32-bit AK4490 Stereo DAC (Front L/R), 2 x 768 kHz/32-bit AK4458 Multichannel DACs (Surround Channels)
- Multiple 32-bit Digital Signal Processing Engines
- Zone 2 and Zone 3 Pre/Line Outs
- Aluminum Front Panel and Volume Control Knob



Powered by  
BLACKFIRE



ROOM CALIBRATION



## Unlock Multidimensional Sound Without Compromise

### TX-RZ3100

11.2-Channel Network A/V Receiver

New for  
2016

**BLACK** **SILVER**

- 200 W/Ch (6 Ω, 1 kHz, 1% THD, 1 Channel Driven, IEC)
- THX® Select2™ Plus Cinema-Reference Audio Performance
- 7.2.4-channel DTS:X™ and Dolby Atmos® Object-based Audio Decoding
- DTS Neural:X™ Upmixes Standard 5.1 and 7.1 Formats to 3D Sound
- Wireless Audio Streaming with Google Cast™, AirPlay®, Wi-Fi®, and Bluetooth®
- Onkyo Controller App for iOS and Android™\*
- AccuEQ Room Calibration with AccuReflex Phase-Matching Technology
- FireConnect™ Multi-Room Wireless Technology
- HDMI® 8 In (1 Front), Main Out, Zone 2 Out (HDCP 2.2/HDR\*)
- Powered Zone 2 and Powered Zone 3 Outputs for Multi-room Analog and Digital Audio with Independent Volume/Tone Controls
- Whole House Mode Function
- Customized High-Output Transformer, Custom Audio-Grade Capacitors, Separate Transformer for Standby
- Separated Digital and Analog Circuitry to Reduce Interference
- Separate 384 kHz/32-bit AK4490 Stereo DAC (Front L/R), 2 x 768 kHz/32-bit AK4458 Multichannel DACs (Surround Channels)
- 11.2 Multichannel Pre-Outs for User Setup Customization
- Aluminum Front Panel and Volume Control Knob



Microphone for AccuEQ



**THX**  
SELECT 2 PLUS

**dts** X™

**DOLBY**  
ATMOS

**Hi-Res**  
AUDIO

**Fire**  
Connect  
Powered by **BLACKFIRE**

**ONKYO**

HDCP2.2 **WIFI** CERTIFIED **Bluetooth** **Spotify** **TIDAL** **Google Cast** **DEEZER** **tunein** **VLC**  
Dynamic Audio **3D** **Surround** **AccuEQ** **USB** **Eco** **AM** **FM** **iPod** **iPhone** **iPad**

## Refined Power for the Home Cinema and Beyond

### TX-RZ1100

9.2-Channel Network A/V Receiver

New for  
2016

**BLACK** **SILVER**

- 200 W/Ch (6 Ω, 1 kHz, 1% THD, 1 Channel Driven, IEC)
- THX® Select2™ Plus Cinema-Reference Audio Performance
- 5.2.4-channel DTS:X™ and Dolby Atmos® Object-based Audio Decoding
- DTS Neural:X™ Upmixes Standard 5.1 and 7.1 Formats to 3D Sound
- Wireless Audio Streaming with Google Cast™, AirPlay®, Wi-Fi®, and Bluetooth®
- Onkyo Controller App for iOS and Android™\*
- AccuEQ Room Calibration with AccuReflex Phase-Matching Technology
- FireConnect™ Multi-Room Wireless Technology
- HDMI® 8 In (1 Front), Main Out, Zone 2 Out (HDCP 2.2/HDR\*)
- Zone 2 HDMI Output Distributes 4K/60 Hz Video to a Second Display
- Powered Zone 2 and Powered Zone 3 Outputs for Multi-room Analog and Digital Audio with Independent Volume/Tone Controls
- Whole House Mode Function
- 11.2 Multichannel Pre-Outs for 7.2.4-channel Object-based Audio (Separate Stereo Amp Required)
- Customized High-Output Transformer, Custom Audio-Grade Capacitors, Separate Transformer for Standby
- Separated Digital and Analog Circuitry to Reduce Interference
- Separate 384 kHz/32-bit AK4490 Stereo DAC (Front L/R), 2 x 768 kHz/32-bit AK4458 Multichannel DACs (Surround Channels)
- Extruded Metal Heat Sink with Polycarbonate Cooling Fan
- Aluminum Front Panel and Volume Control Knob



Microphone for AccuEQ



**THX**  
SELECT 2 PLUS

**dts** X™

**DOLBY**  
ATMOS

**Hi-Res**  
AUDIO

**Fire**  
Connect  
Powered by **BLACKFIRE**

**ONKYO**

HDCP2.2 **WIFI** CERTIFIED **Bluetooth** **Spotify** **TIDAL** **Google Cast** **DEEZER** **tunein** **VLC**  
Dynamic Audio **3D** **Surround** **AccuEQ** **USB** **Eco** **AM** **FM** **iPod** **iPhone** **iPad**

## Sound Quality and Features in Perfect Balance

## TX-RZ810

7.2-Channel Network A/V Receiver

New for  
2016

BLACK SILVER

- 180 W/Ch (6 Ω, 1 kHz, 1% THD, I Channel Driven, IEC)
- THX® Select2™ Plus Cinema-Reference Audio Performance
- DTS:X™ and Dolby Atmos® up to 5.1.2 Channels
- Wireless Audio Streaming with Google Cast™, AirPlay®, Wi-Fi®, and Bluetooth®
- Onkyo Controller App for iOS and Android™\*
- Internet Radio and Music Streaming Subscription Services Included
- AccuEQ Room Calibration with AccuReflex Phase-Matching Technology
- FireConnect™ Multi-Room Wireless Technology
- Discrete Non-Phase-Shifting Amplifier Circuits for Accurate Audio Imaging with Ultra-Low 5 Hz Frequency Performance
- Customized Capacitors and Massive High Power Transformer for High Current Delivery and Precise Speaker Driver Control
- Copper Bus Bars and Rigid Insulators to Reduce Signal Interference
- HDMI® 8 In (1 Front) with Main / Zone 2 Out (HDCP 2.2 / HDR\*)
- AK4458 384 kHz/32-bit DAC (8 Channels x 1)
- Powered Zone 2 and Zone 3 Pre/Line Out for Digital/Analog Audio
- Network Hi-Res Audio (DSD 5.6 MHz, 192/24 PCM, Dolby® TrueHD)
- 7.2 Multichannel Pre-Outs
- Aluminum Front Panel and Volume Control Knob



Microphone for AccuEQ



## Add THX® Reference Sound to Your Widescreen Experience

## TX-RZ710

7.2-Channel Network A/V Receiver

New for  
2016

BLACK SILVER

- 175 W/Ch (6 Ω, 1 kHz, 1% THD, I Channel Driven, IEC)
- THX® Select2™ Plus Cinema-Reference Audio Performance
- DTS:X™ and Dolby Atmos® up to 5.1.2 Channels
- AccuEQ Room Calibration with AccuReflex Phase-Matching Technology
- FireConnect™ Multi-Room Wireless Technology
- Discrete Non-Phase-Shifting Amplifier Circuits for Accurate Audio Imaging with Ultra-Low 5 Hz Frequency Performance
- Customized Capacitors and Massive High Power Transformer for High Current Delivery and Precise Speaker Driver Control
- Wireless Audio Streaming with Google Cast™, AirPlay®, Wi-Fi®, and Bluetooth®
- Onkyo Controller App for iOS and Android™\*
- Internet Radio and Music Streaming Subscription Services Included
- HDMI® 8 In with Zone 1 and Zone 2 Out (HDCP 2.2 / HDR\*)
- Phono Input and Hi-Res Audio Playback
- Zone 2 HDMI Output for 4K/60 Hz Video in Another Room
- Powered Zone 2 and Zone 3 Pre/Line Out for Distributed Analog/Digital Audio Playback in Another Room
- Control and Stream with Free Onkyo Remote Streaming Apps
- Bi-Amping Capability for Front Channels
- AK4458 384 kHz/32-bit DAC (8 Channels x 1)



Microphone for AccuEQ



Set Home Entertainment to “Epic”

## TX-NR656

7.2-Channel Network A/V Receiver

BLACK SILVER

New for  
2016



- 160 W/Ch (6 Ω, 1 kHz, 1% THD, 1 Channel Driven, IEC)
- DTS:X™ and Dolby Atmos® up to 5.1.2 Channels
- Wireless Audio Streaming with Google Cast™, AirPlay®, Wi-Fi®, and Bluetooth®
- Onkyo Controller App for iOS and Android™\*!
- Internet Radio and Music Streaming Subscription Services Included
- HDMI® 8 In / 2 Out Including 1 Front (HDCP 2.2 / HDR)
- AccuEQ Room Calibration with AccuReflex Technology
- FireConnect™ Multi-Room Wireless Technology
- Dynamic Audio Amplification with Non-Phase Shift Amp Circuits for Realistic Sound
- Phono Input and Hi-Res Audio Playback
- AK4458 384 kHz/32-bit DAC (8 Channels x 1)
- Control and Stream with Free Onkyo Remote Streaming Apps
- Powered Zone 2 and Zone 2 Line Out for Digital and Analog Audio



Transform Movies, Music, and Gaming

## TX-NR555

7.2-Channel Network A/V Receiver

New for  
2016



BLACK SILVER

- 130 W/Ch (6 Ω, 1 kHz, 1% THD, 1 Channel Driven, IEC)
- DTS:X™ and Dolby Atmos® up to 5.1.2 Channels
- Wireless Audio Streaming with Google Cast™, AirPlay®, Wi-Fi®, and Bluetooth®
- Onkyo Controller App for iOS and Android™\*!
- Internet Radio and Music Streaming Subscription Services Included
- HDMI® 6 In / 1 Out (4K/60 Hz / HDCP 2.2 / HDR)
- AccuEQ Room Calibration with AccuReflex Phase-Matching Technology
- FireConnect™ Multi-Room Wireless Technology
- Dynamic Audio Amplification with Non-Phase Shift Amp Circuits
- AK4458 384 kHz/32-bit DAC (8 Channels x 1)
- Play Compressed, Lossless, and Hi-Res Audio via Local Network
- Advanced Music Optimizer to Improve Compressed Digital Audio Quality
- Control and Stream with Free Onkyo Remote Streaming Apps
- Powered Zone 2 and Zone 2 Line Out for Digital and Analog Audio



## TX-SR444

7.1-Channel A/V Receiver



BLACK SILVER

- 100 W/Ch (6 Ω, 1 kHz, 1% THD, 1 Channel Driven, IEC) • Supports Dolby Atmos® up to 5.1.2 Channels • 4K/60 Hz, 4:4:4 Color Space, and HDCP 2.2-Capable HDMI® Terminals for UltraHD Entertainment (4 In / 1 Out) • Built-in Bluetooth® Wireless Audio Streaming • AccuEQ Room Calibration with Mic Included • Phase-Matching Bass Boost for Deep Bass and Clear Mid-Range • TI Burr-Brown 192 kHz/24-bit DAC for All Channels • Discrete Output Stage Circuitry • Advanced Music Optimizer to Improve Compressed Digital Audio Quality (Bluetooth Audio Included) • STRM Box Port (Rear) for Powering Media Streaming Sticks • Easy Configuration Rear Panel • Zone B Output for Distributed Audio Playback in Another Room



## TX-SR252

5.1-Channel A/V Receiver



BLACK

- 100 W/Ch (6 Ω, 1 kHz, 0.7% THD, 1 Channel Driven, IEC) • 4K/60 Hz, 4:4:4 Color Space, and HDCP 2.2-Capable HDMI® Terminals for UltraHD Entertainment (4 In / 1 Out) • Dolby® TrueHD and DTS-HD Master Audio™ Decoding • Discrete Output Stage Circuitry • 192 kHz/24-bit DAC for All Channels • SACD Playback via HDMI (2.8 MHz, 2 Channels) • USB Port (Front) for Music Playback via Flash Drive • Easily Configured Rear Panel • 3 Analog Audio Inputs and 2 Digital Audio Inputs



**PA-MC5501**

9-Channel Amplifier



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- 220 W/Ch (6 Ω, 1 kHz, 1%, 1 Channel Driven, IEC)
- THX® Ultra2™ Certified
- Push-Pull Amplification Design with Three-Stage Inverted Darlington Circuitry
- Massive Toroidal Transformer
- Two Large, Customized 22,000 µF Capacitors for Effective Power Supply
- Large Custom-designed Power Transistors
- Flat and Rigid Anti-Resonant Chassis
- Gold-Plated XLR Inputs and Speaker Posts

**THX**  
ULTRA2New for  
2016**BD-SP809**

Blu-ray Disc Player



BLACK

SILVER

- THX® Certified
- 2 HDMI® Outputs
- 1080p Upscaling of Standard Video Sources with Qdeo™ Technology
- Precision Clock for Optimal Timing of Digital Signals
- Ethernet Port for BD-Live™, Firmware Updates, and Media Streaming via Home Network
- Independent Circuit Blocks for Audio, Digital Video, and Analog Video to Reduce Electromagnetic Interference
- Center-Mounted Drive Mechanism for Optimal Weight Balance

**BD-SP353**

Blu-ray Disc Player

BLACK

SILVER

- HDMI® Output Supports 1080p, Deep Color™, xv.Color™ and CEC
- Supports Dolby® TrueHD and DTS-HD Master Audio™ Essential
- 1080/24p Video Output for Full HD Movies on Blu-ray Discs
- 1080p Upscaling
- Plays AVCHD®, DivX Plus™ HD (MKV), MP3, and JPEG Formats
- USB Port for Hi-Res Audio Playback (192 kHz/24-bit WAV, FLAC)
- BD-Live™ Functionality for Interactive Content
- Digital Audio Output (Optical)
- Firmware Updates (via USB) \*Encoded on DVD-R/RW only.

**CORE TECHNOLOGIES****Now with Google Cast™, AirPlay®, and Wi-Fi®**

Cast almost any audio from mobile and PC apps to selected Onkyo components with zero stress using Google Cast or AirPlay over Wi-Fi.

Google Cast

**Bluetooth® Wireless Technology**

Convenient and stable, Bluetooth technology is a popular way to cast audio wirelessly. We include an optimized spec on many of our 2016 models.

**Bluetooth®****Internet Audio Entertainment On Board**

Popular streaming services are baked into the GUI of selected components. Listen to any music in the world whenever you want using a smartphone to select content.

**Remote Apps for iOS and Android™**

Onkyo remote apps, including an all-new Onkyo Controller application for selected products, provide effortless control of supported network components across the home. Access to streaming and internet radio services, mobile audio, and network-attached music libraries is instantly available using clean and intuitive interfaces.

Available on the  
**App Store**ANDROID APP ON  
**Google play****70 Years of Audio Excellence**

Onkyo's reputation for delivering emotion-filled sound is maintained by our proven amplification philosophy: high current for full-spectrum dynamics; noise-free processing to give digital music analog soul; and phase-management to preserve the rhythm and atmosphere of your favorite records.

**THX® Cinema-Reference Sound**

THX® guarantees cinema-reference volume and sound quality in your home. Rigorously tested and THX®-certified Onkyo A/V products deliver soundtracks exactly as the film director intended.

**Premium 32-bit DACs for Hi-Res Audio**

Selected products employ top quality AKM DACs featuring optimized output filters to reduce noise and preserve high bandwidth. The technology reveals hidden details in DSD and 192/24 Hi-Res Audio files.

**AccuEQ with AccuReflex**

AccuEQ calibrates speaker systems to suit unique spaces, eliminating standing waves for greater accuracy and cohesion. In object-based home cinemas, AccuReflex aligns phase timing to ensure sound reaches the audience simultaneously, improving clarity.

**AccuEQ**  
ROOM CALIBRATION**DTS Neural:X™**

With DTS:X™ comes DTS Neural:X™, an upmixing solution that retrieves spacial cues from multichannel soundtracks and enables convincing 3D playback through both surround and height channels.

**Ready for Next-Generation TVs with HDMI®**

HDMI terminals pass 4K/60p video with HDR, 4:4:4 color space, and BT.2020 through to the latest UltraHD displays. HDCP 2.2 compliance unlocks the latest in Hollywood content now and in the future.

**4K UltraHD****HDCP 2.2 / HDR****Single-Cable TV Connection**

All A/V receivers featuring legacy connections for game consoles and VCRs can upscale analog video to 1080p, sending signals to the TV via a single cable. Other lifestyle A/V products upscale 1080p video to UltraHD.

**Housewide Audio Distribution**

Together with unpowered outputs, selected A/V receivers have multiple DACs and dedicated powered outputs to share digital or analog audio (including HDMI) to speakers in other rooms. Wherever you go, sound follows with easy smartphone control.

**Share Video in Two Zones**

Zone 2 HDMI distributes 4K and 1080p content from your home cinema to a second TV with smartphone control of entertainment in both rooms.

**Economical Standby and HDMI Passthrough**

Hybrid Standby allows most network products to power on and commence playback when a signal is detected. Further, HDMI passthrough lets you use your TV and players with the receiver switched off.

**ECO**

## HT-S9700THX

7.1-Channel Network A/V Receiver/Speaker Package



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### HT-R993 7.2-Channel Network A/V Receiver

- 160 W/Ch (6 Ω, 1 kHz, 1% THD, I Channel Driven, IEC) • THX® I/S Plus™ Certified for Cinema-Reference Sound • Supports Dolby Atmos® for Exciting Multidimensional Sound • 4K/60 Hz-capable HDMI® Terminals for UltraHD Entertainment<sup>\*1</sup> • Supports HDCP 2.2 for 4K/Full HD Video Streaming and Broadcast<sup>\*2</sup> • 7 HDMI Inputs (1 Front with MHL™ / 6 Rear) and 2 Outputs • HDMI Video Upscaling to 4K with Qdeo™ Processing Technology by Marvell • Built-in Wi-Fi®-Certified Wireless LAN and Bluetooth® Version 2.1 + EDR with Advanced Music Optimizer • AccuEQ Room Calibration with Mic for Clear and Balanced Sound • Powered Zone 2 and Zone 2 Line-Out for Distributed Audio Playback in Another Room • WHD: 435 x 173.5 x 329 mm • 10.0 kg

### HTP-993 7.1-Channel Home Cinema Speaker System

SKF-980 2-Way Acoustic-Suspension Front Speakers • WHD: 158 x 433 x 199 mm • 5.3 kg  
 SKC-980 2-Way Acoustic-Suspension Center Speaker • WHD: 433 x 158 x 199 mm • 5.3 kg  
 SKR-980/SKB-980 2-Way Acoustic-Suspension Surround/Surround Back Speakers • WHD: 200 x 275 x 169 mm • 3.5 kg  
 SKW-980 Acoustic-Suspension Powered Subwoofer • WHD: 380 x 444 x 429 mm • 15.5 kg



## HT-S7805

5.1.2-Channel Network A/V Receiver/Speaker Package

New for 2016



BLACK

### HT-R695 7.2-Channel Network A/V Receiver

- 160 W/Ch (6 Ω, 1 kHz, 1% THD, I Channel Driven, IEC) • DTS:X™ Sound Format Ready
- Supports Dolby Atmos® for Exciting Multidimensional Sound • 4K/60 Hz-capable 4:4:4 HDMI® Terminals for UltraHD Entertainment<sup>\*3</sup> • Supports HDCP 2.2 and HDR for 4K/Full HD Video Streaming and Broadcast<sup>\*4</sup> • 8 HDMI Inputs (1 Front / 7 Rear) and 2 Outputs • Built-in Wi-Fi®-Certified Wireless LAN and Bluetooth® Version 2.1 + EDR with Advanced Music Optimizer
- FireConnect™ Multi-Room Wireless Technology • Dynamic Audio Amplification • AccuEQ Room Calibration with AccuReflex Technology • Internet Radio and Music Streaming Subscription Services Included • Onkyo Controller App for iOS and Android™<sup>\*5</sup> • Powered Zone 2 and Zone 2 Line Out for Distributed Analog/Digital Audio Playback in Another Room
- WHD: 435 x 173.5 x 378 mm • 10.0 kg

### HTP-678 5.1.2-Channel Home Theater Speaker System

SKF-693 Dolby Atmos-enabled 2-Way Bass Reflex Front Speakers/Full-Range Acoustic-Suspension Height Speakers • WHD: 155 x 467 x 183 mm • 3.6 kg  
 SKC-591N 2-Way Bass Reflex Center Speaker • WHD: 420 x 115 x 119 mm • 2.4 kg  
 SKR-590 Full-Range Acoustic-Suspension Surround Speakers • WHD: 115 x 230 x 96 mm • 1.0 kg  
 SKW-658 Bass Reflex Powered Subwoofer • WHD: 230 x 425 x 410 mm • 7.7 kg



## HT-S5805

5.1.2-Channel Dolby Atmos® Home Cinema Package



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### HT-R494 7.1-Channel A/V Receiver

- 100 W/Ch (6 Ω, 1 kHz, 0.7% THD, I Channel Driven, IEC) • Supports Dolby Atmos® up to 5.1.2 Channels • 4K/60 Hz-Capable HDMI® Terminals with 4:4:4 Color Space for UltraHD Entertainment (4 In / 1 Out) • Bluetooth® Version 2.1 + EDR Capability (Compatible Profile: A2DP v1.2, AVRCP v1.3) • Advanced Music Optimizer to Improve Compressed Digital Audio Quality (Bluetooth Audio Included) • Phase-Matching Bass Boost for Deep Bass and Clear Mid-Range
- AccuEQ Room Acoustic Calibration • Pure Driving Power from Discrete Amp Technology
- STRM Port (Rear) for Powering Media Streaming Sticks • Simple Rear Panel Layout for Easy Connection • WHD: 435 x 160 x 328 mm • 8.0 kg

### HTP-588 5.1.2-Channel Home Cinema Speaker System

SKF-594 2-Way Bass Reflex Front Speakers/Full-Range Acoustic-Suspension Height Speakers • WHD: 155 x 467 x 183 mm • 3.6 kg  
 SKC-594 2-Way Bass Reflex Center Speaker • WHD: 409 x 115 x 121 mm • 2.2 kg  
 SKR-594 Full-Range Acoustic-Suspension Surround Speakers • WHD: 115 x 230 x 96 mm • 1.0 kg  
 SKW-658 Bass Reflex Powered Subwoofer • WHD: 230 x 425 x 410 mm • 7.7 kg



## HT-S3800

5.1-Channel Home Cinema Receiver/Speaker Package

New for 2016



BLACK

### HT-R395 5.1-Channel Home Cinema Receiver

- 100 W/Ch (6 Ω, 1 kHz, 0.7% THD, I Channel Driven) • 4K/60 Hz-capable HDMI® 4 Input / 1 Output (HDCP 2.2 / HDR) • Bluetooth® Audio Streaming • USB Port (Front) for Music Playback via Flash Drive • 192 kHz/24-bit DAC for All Channels • SACD Playback via HDMI (2.8 MHz, 2 Channels) • Discrete Output Stage Circuitry • WHD: 435 x 168 x 326.5 mm • 7.7 kg

### HTP-395 5.1-Channel Home Cinema Speaker System

SKF-395 Full-Range Acoustic-Suspension Front Speakers • WHD: 100 x 140 x 95 mm • 0.6 kg  
 SKC-395 Full-Range Acoustic-Suspension Center Speaker • WHD: 240 x 95 x 95 mm • 0.7 kg  
 SKR-395 Full-Range Acoustic-Suspension Surround Speakers • WHD: 100 x 140 x 95 mm • 0.6 kg  
 SKW-395 Bass Reflex Subwoofer • WHD: 230 x 418 x 358 mm • 5.3 kg



**SKF-4800**

Front Speakers

BLACK

- 16 cm Cone Woofer x 2
- 2.5 cm Soft-Dome Tweeter
- Banana-plug-compatible Speaker Posts
- Woofer Equalizer Enables Fast and Accurate Response
- MDF Stabilizer to Minimize Vibration
- Stylish Floorstanding Design
- Impedance: 6 Ω
- Max. Input Power: 130 W
- Frequency Response: 55 Hz–35 kHz
- WHD: 295 x 1,024 x 305 mm
- 13.0 kg

**SKS-HT978THX**

5.1-Channel Home Cinema Speaker System



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**SKF-980** 2-Way Acoustic-Suspension Front Speakers

- 12 cm A-OMF Diaphragm Woofer x 2 • 2.5 cm Soft-Dome Tweeter
- WHD: 158 x 433 x 199 mm • 5.3 kg

**SKC-980** 2-Way Acoustic-Suspension Center Speaker

- 12 cm A-OMF Diaphragm Woofer x 2 • 2.5 cm Soft-Dome Tweeter
- WHD: 433 x 158 x 199 mm • 5.3 kg

**SKR-980** 2-Way Acoustic-Suspension Surround Speakers

- 13 cm A-OMF Diaphragm Woofer • 2.5 cm Soft-Dome Tweeter
- WHD: 200 x 275 x 169 mm • 3.5 kg

All speakers feature an impedance of 8 Ω, maximum input power of 130 W, and wall-mounting capability.

**SKW-938** Acoustic-Suspension Powered Subwoofer

- 30 cm Cone • Rated Output Power: 125 W (Minimum Continuous Power, 6 Ω, 100 Hz, 1%, IEC) • WHD: 380 x 444 x 429 mm • 15.5 kg



THX A-OMF

**SKS-HT588**

5.1.2-Channel Home Cinema Speaker System



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**SKF-2800** Dolby Atmos®-Enabled Integrated Front & Height Speakers

- 12 cm Cone Woofer • 2.5 cm Balanced-Dome Tweeter • 8 cm Cone (Separately Powered By Height Channel) • WHD: 155 x 467 x 183 mm • 3.7 kg

**SKC-594** 2-Way Bass Reflex Center Speaker

- 8 cm Cone Woofer x 2 • 2.5 cm Balanced-Dome Tweeter
- WHD: 409 x 115 x 121 mm • 2.2 kg

**SKR-594** Full-Range Acoustic-Suspension Surround Speakers

- 8 cm Cone • WHD: 115 x 230 x 96 mm • 1.0 kg

**SKW-658** Bass Reflex Powered Subwoofer

- 20 cm Cone • Rated Output Power: 80 W (Minimum Continuous Power, 4 Ω, 100 Hz, 1%, IEC) • Down-Firing • WHD: 230 x 425 x 410 mm • 7.7 kg

**SKS-HT728**

5.1-Channel Home Cinema Speaker System



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**SKF-770** Dual-Drive 2-Way Front Speakers

- 8 cm Cone Woofer x 2 • 2.5 cm Balanced-Dome Tweeter • WHD: 262 x 1,050 x 262 mm • 5.2 kg

**SKC-770** Dual-Drive 2-Way Center Speaker

- 8 cm Cone Woofer x 2 • 2.5 cm Balanced-Dome Tweeter • WHD: 430 x 115 x 121 mm • 2.2 kg

**SKR-770** Full-Range Surround Speakers

- 8 cm Cone • WHD: 115 x 230 x 96 mm • 1.0 kg

All speakers feature an impedance of 6 Ω, maximum input power of 130 W, and all except the front speakers are wall-mountable.

**SKW-770** Bass Reflex Powered Subwoofer

- 25 cm Cone • Rated Output Power: 120 W (Minimum Continuous Power, 4 Ω, 100 Hz, 1%, IEC) • Down-Firing • WHD: 275 x 507 x 411 mm • 11.6 kg

**SKS-HT648**

5.1-Channel Home Cinema Speaker System



BLACK

**SKF-648** 2-Way Acoustic-Suspension Front Speakers

- 8 cm Cone Woofer • 2.5 cm Balanced-Dome Tweeter
- Solid-style, High-density Speaker Cabinets • WHD: 102 x 170 x 105 mm • 1.0 kg

**SKC-648** 2-Way Acoustic-Suspension Center Speaker

- 8 cm Cone Woofer x 2 • 2.5 cm Balanced-Dome Tweeter
- Solid-style, High-density Speaker Cabinet • WHD: 277 x 110 x 110 mm • 1.7 kg

**SKR-648** Full-Range Acoustic-Suspension Surround Speakers

- 8 cm Cone • Solid-style, High-density Speaker Cabinets
- WHD: 102 x 170 x 105 mm • 0.9 kg

All speakers feature an impedance of 6 Ω and maximum input power of 130 W.

**SKW-501E** Bass Reflex Powered Subwoofer

- 20 cm Cone • Down-firing • Rated Output Power: 80 W (Minimum Continuous Power, 4 Ω, 100 Hz, IEC) • WHD: 230 x 425 x 412 mm • 9.1 kg

**SKS-HT528**

5.1-Channel Home Cinema Speaker System



BLACK

**SKF-528** Full-Range Bass Reflex Front Speakers

- 8 cm Cone Woofer • Max. Input Power: 120 W • Gloss-finished
- Magnetically Shielded • WHD: 101 x 175 x 116 mm • 0.7 kg

**SKC-528** Full-Range Bass Reflex Center Speaker

- 8 cm Cone Woofer • Max. Input Power: 120 W • Gloss-finished
- Magnetically Shielded • WHD: 273 x 101 x 106 mm • 1.0 kg

**SKR-528** Full-Range Bass Reflex Surround Speakers

- 8 cm Cone Woofer • Max. Input Power: 120 W • Gloss-finished
- Magnetically Shielded • WHD: 101 x 175 x 116 mm • 0.7 kg

All speakers feature an impedance of 6 Ω and wall-mounting capability.

**SKW-501** Bass Reflex Powered Subwoofer

- 20 cm Cone • Down-firing • Rated Output Power: 80 W (Minimum Continuous Power, 4 Ω, 100 Hz, IEC) • WHD: 230 x 425 x 412 mm • 9.1 kg

**SKH-410**

Dolby Atmos®-Enabled Speaker System



BLACK

- Dedicated Dolby Atmos-Enabled Speakers • Dolby Atmos-Certified Special Network Inside • Position on an Existing Front Speaker (Such as Onkyo SKF-4800) or Wall-mount to Enable Dolby Atmos Height Effects
- 8 cm Cone Transducer • Wood Cabinet Construction • High-Grade Cloth Grilles • Quality Black Hairline Finish • Rated Input Power: 25 W • Maximum Input Power: 100 W • Includes Rubber Feet, 3 m Speaker Cables (x2), and Wall-mount Kit
- WHD: 120 x 155 x 153 mm • 1.2 kg



Dolby Atmos-enabled SKH-410 speakers in a 7.1.2-channel home cinema

## MULTI-ROOM AUDIO MADE EASY

**FireConnect™ Multi-room Wireless Audio**

Mirror any audio source\* (analog, TV, or network) from home cinema to optional FireConnect™-enabled wireless speakers\* with convenient control via smartphone application. With this future-ready technology, Onkyo puts housewide sound within reach.

\* Available sources may vary depending on model. FireConnect™ is a wireless technology of Blackfire Research Corp., USA. Onkyo cannot guarantee correct operation with FireConnect™-compatible products made by other brands. Optional wireless speakers are scheduled for release. FireConnect™ is enabled via firmware update.

**Dedicated DACs for AVR Audio Distribution**

With dedicated DACs for multi-zone audio, selected A/V receivers can distribute analog and digital audio (including S/PDIF, HDMI®, and Network) to stereo speakers in up to three rooms (Main Room / Zone 2 / Zone 3) via powered speaker outputs. Play the same source or different sources in each zone with smartphone control.

**Products with FireConnect™**

FireConnect™ is enabled on a selection of stereo and multichannel audio-video and Hi-Fi components, including:

- Network A/V Receivers (2016 Models)
- Lifestyle Network A/V Receivers (TX-L50, TX-L20D)
- Network Hi-Fi Components (NS-6170, NS-6130)
- Network Hi-Fi Components and Packages (CS-N1075, R-N855)



FireConnect™ by Blackfire Research Corp.  
is a stable wireless protocol that mirrors any audio source  
connected to the receiver—from vinyl to streaming audio.

Connect Your Entertainment

Enjoy Music Anytime

Luxury Sound for Life

BRING GOOD SOUND BACK TO LIFE

**LS5200**

2.1-Channel Home Cinema System

WHITE | BLACK

Envision Cinema

New for  
2016**TX-L20DWL** 2.1-Channel A/V Receiver

- 85 W/Ch (4 Ω, 1 kHz, 1%, I Channel Driven, IEC) • Efficient Digital Amplification System with Independent Power Supply and Discrete Output Stages • Wireless Audio Streaming with Google Cast™, AirPlay®, Wi-Fi®, and Spotify®
- Bluetooth® Wireless Technology (Version 4.1+LE, Compatibility Profile A2DP 1.2/AVRCP 1.4) • Onkyo Controller App for iOS and Android™\*1 • 4 HDMI® Inputs / 1 Output (4K60p, HDCP 2.2) • FireConnect™ Wireless Multi-room Capability with Optional Speakers\*2 • WHD: 435 x 70 x 331.5 mm • 4.0 kg

**SKM-648** Acoustic-Suspension Satellite Speakers

- 8.0 cm Cone Woofer • 2.5 cm Balanced-dome Tweeter • Wall-mounting Capability
- WHD: 102 x 170 x 105 mm • 1.0 kg

**SKW-B50** Wireless Subwoofer

- Wireless Design for Flexible Positioning • Powered Bass Reflex Design • 16 cm Downfiring Cone
- Rated Output Power: 50 W (4 Ω, 100 Hz, 1% THD, IEC) • WHD: 261 x 337 x 269 mm • 5.8 kg

**LS3200**

2.1-Channel Speaker System



BLACK | WHITE

Envision Cinema

**LAP-302** 2.1-Channel Control Center

- Digital Amplifier Circuitry to Maintain Clean Audio Signals • Preset Remote Control Code for Most TV Brands with Learning Capability\*3 • Auto Power On/Standby with TV • Features DTS Studio Sound™ Technology for Room-Filling Audio Reproduction • Voice Mode Enhances Dialog • Bluetooth® Wireless Audio Streaming Technology (Version 2.1 + EDR) • 2 Digital Audio Inputs (Optical and Coaxial) • WHD: 187 x 32 x 120 mm • 0.3 kg

**SLM-302** Full-Range Acoustic-Suspension Speakers

- 6.5 cm Cones x 2 • Detachable Speaker Stands for Greater Mounting Flexibility • Wall Mountable • Vertical or Horizontal Orientation
- WHD: 169 x 78 x 108 mm (Horizontal), 169 x 111 x 133 mm (Horizontal, with Stand) • 0.7 kg (Without Stand)

**SKW-B50** Wireless Subwoofer

- Wireless Design for Installation Flexibility • Powered Bass Reflex Design • 16 cm Cone
- Rated Output Power: 50 W (4 Ω, 100 Hz, 1%, IEC) • Down-firing • WHD: 261 x 337 x 269 mm • 5.8 kg

**TX-L50**

5.1-Channel Network A/V Receiver

Hi-Res  
AUDIONew for  
2016

WHITE | BLACK

Envision Series

TX-L20D

2.1-Channel Network Stereo Receiver

Hi-Res  
AUDIONew for  
2016

Envision Series

- 80 W/Ch (4 Ω, 1 kHz, 1%, I Channel Driven, IEC) • Efficient Six-Channel Digital Amplification System with Independent Power Supply and Discrete Output Stages • Wireless Audio Streaming with Google Cast™, AirPlay®, Wi-Fi®, Spotify®, and Bluetooth® • 4 HDMI® Inputs / 1 Output (4K60p, HDCP 2.2) • AccuEQ Room Acoustic Calibration • FireConnect™ Wireless Multi-room Capability with Optional Speakers • Onkyo Controller App for iOS and Android™\*1 • 1080p Video Upscaling to 4K Resolution • Supports 192/24 and DSD Decoding for Hi-Res Audio Playback • WHD: 435 x 70 x 325.5 mm • 4.0 kg



Engineered for Audio Perfection

**P-3000R**

Preamplifier

**SILVER** **BLACK**

- DIDRC (Dynamic Intermodulation Distortion Reduction Circuitry)
- Separate Digital/Analog Circuitry
- Separate Massive Transformers for Digital/Analog Circuitry (Toroidal Transformer for Analog Circuitry)
- Separate Anti-Vibration Aluminum Panels
- PLL Ultra-Low Jitter Technology
- Separate TI Burr-Brown 192 kHz/32-bit DACs (PCM1795 x 2)
- Independent Headphone Amplifier
- Discrete Phono Equalizer (MM)
- USB Device (C-Media CM6631) for 192 kHz/32-bit Hi-Res Audio from PC\*
- 5 Digital Inputs (Amphenol AES/EBU, 2 Optical, and 2 Coaxial) and 1 Output (Optical)

\* Playback of PC audio requires dedicated software that can be downloaded from an Onkyo website.



DIDRC 192kHz 32bit USB RI

Satisfy Your Desire for Reference Sound

**M-5000R**

Power Amplifier

**SILVER** **BLACK**

- Max. Power: 170 W/Ch (4 Ω, 1 kHz, 1%, 2 Channels Driven, IEC)
- DIDRC (Dynamic Intermodulation Distortion Reduction Circuitry)
- AWRAT (Advanced Wide Range Amplifier Technology)
- Quad Push-Pull Amplification Design with Three-Stage Inverted Darlington Circuitry
- Symmetrical Layout of L/R Channels
- Two Massive Toroidal Transformers with Sub Transformer
- Four Large 27,000 µF Capacitors
- Separate Anti-Vibration Aluminum Panels
- Balanced XLR Input for Monaural Amplification in BTL Mode



DIDRC AWRAT 192kHz 24bit USB RI

**A-9070**

Integrated Stereo Amplifier

**SILVER** **BLACK**

- 140 W/Ch (4 Ω, 20 Hz–20 kHz, 0.05%, 2 Channels Driven, IEC)
- DIDRC (Dynamic Intermodulation Distortion Reduction Circuitry)
- AWRAT (Advanced Wide Range Amplifier Technology)
- Parallel Push-Pull Amplification Design with Three-Stage Inverted Darlington Circuitry
- 192 kHz/24-bit Hi-Res Audio Playback via USB (Asynchronous Transfer)
- Separate Wolfson® 192 kHz/24-bit DACs (WM8742 x 2)
- Four Large 18,000 µF Capacitors
- Four Amplifier Modes (Integrated Amp, Power Amp, Pre-Amp, Split Pre-Amp/Power Amp)
- Discrete Phono Equalizer (MM/MC)
- 4 Digital Inputs (1 Amphenol AES/EBU, 1 Optical, and 2 Coaxial)



DIDRC AWRAT 192kHz 24bit USB RI

**A-9050**

Integrated Stereo Amplifier

**SILVER** **BLACK**

- 75 W/Ch (8 Ω, 1 kHz, 0.08%, 2 Channels Driven, IEC)
- DIDRC (Dynamic Intermodulation Distortion Reduction Circuitry)
- Three-Stage Inverted Darlington Circuitry
- WRAT (Wide Range Amplifier Technology)
- Thick, Low-Impedance Copper Bus Bars
- Two 10,000 µF Capacitors
- Wolfson® 192 kHz/24-bit DAC (WM8718)
- Phase-Matching Bass Boost
- 96 kHz/24-bit Capable Digital Audio Inputs (1 Optical and 2 Coaxial)
- Phono Input (MM)
- Gold-Plated RCA Terminals and Speaker Posts
- 1.6 mm Full Flat Chassis



DIDRC AWRAT 192kHz 24bit RI



DIDRC WRAT PMBASS 192kHz 24bit RI

**A-9030**

Integrated Stereo Amplifier

**SILVER** **BLACK**

- 65 W/Ch (8 Ω, 1 kHz, 0.08%, 2 Channels Driven, IEC)
- Three-Stage Inverted Darlington Circuitry
- WRAT (Wide Range Amplifier Technology)
- Phase-Matching Bass Boost
- High-Current Low-Impedance Drive
- Thick, Low-Impedance Copper Bus Bars
- Two 8,200 µF Capacitors
- Optimum Gain Volume Control
- 1.6 mm Full Flat Chassis
- 5 Analog Audio Inputs and 1 Output
- Phono Input (MM)
- Subwoofer Pre-Out
- Speaker A/B Drive



WRAT PMBASS RI



Experience True Musicality from Compact Disc

**C-7000R**

Compact Disc Player

**SILVER** **BLACK**

- DIDRC (Dynamic Intermodulation Distortion Reduction Circuitry)
- Separate Digital/Analog Circuitry
- Separate Massive Transformers for Digital and Analog Circuitry (Toroidal Transformer for Analog Circuitry)
- Thermally Regulated High-Precision Clock
- Silent Disc Mechanism with Solid Die-Cast Aluminum Tray
- Separate Anti-Vibration Aluminum Panels
- PLL Ultra-Low Jitter Technology
- Separate TI Burr-Brown 192 kHz/24-bit DACs (PCM1792 x 2)
- Pure Analog/Digital Mode
- 3 Digital Outputs (Amphenol AES/EBU, Optical, and Coaxial)



DIDRC 192kHz 24bit MP3 WMA



Elite Integrated Amp Brings Your Music to Life

**A-9000R**

Integrated Stereo Amplifier

**SILVER** **BLACK**

- 140 W/Ch (4 Ω, 20 Hz–20 kHz, 0.05%, 2 Channels Driven, IEC)
- DIDRC (Dynamic Intermodulation Distortion Reduction Circuitry)
- AWRAT (Advanced Wide Range Amplifier Technology)
- Quad Push-Pull Amplification Design with Three-Stage Inverted Darlington Circuitry
- 192 kHz/24-bit Hi-Res Audio Playback via USB (Asynchronous Transfer)
- Separate Wolfson® 192 kHz/24-bit DACs (WM8742 x 2)
- Four Large 18,000 µF Capacitors
- Four Amplifier Modes (Integrated Amp, Power Amp, Pre-Amp, Split Pre-Amp/Power Amp)
- Discrete Phono Equalizer (MM/MC)
- 4 Digital Inputs (1 Amphenol AES/EBU, 1 Optical, and 2 Coaxial)



DIDRC AWRAT 192kHz 24bit RI



DIDRC WRAT PMBASS 192kHz 24bit RI





## DISCOVER TRUE MUSICALITY

**CP-1050**

Direct Drive Turntable

BLACK **YELLOW**

- Stable Direct-Drive System for Minimal Low-Frequency Cogging Noise • Quartz-Lock Control System for High-Precision Rotation • Solid Anti-Vibration MDF Cabinet Construction with Woodgrain Finish • Die-cast 305 mm Aluminum Platter for Smooth and Stable Rotation • Aluminum Static-Balance S-shaped Tonearm • Detachable Headshell Compatible with Aftermarket Cartridges • Gold-plated RCA Phono Output • Button-selectable 33 1/3 and 45 rpm Speeds • WHD: 450 x 158 x 367.5 mm • 8.6 kg

**A-9010**

Integrated Stereo Amplifier

SILVER **BLACK**

- 44 W/Ch (8 Ω, 1 kHz, 0.08% THD, 2 Channels Driven, IEC) • WRAT (Wide Range Amplifier Technology)
- Discrete Amplifier Output Circuitry • High Quality Wolfson® WM8718 192 kHz/24-bit DAC • Two Digital Audio Inputs (Optical and Coaxial) • Coaxial Supports Hi-Res Audio Up to 192 kHz/24-bit • Independent Headphone Amplification Circuitry • Four Audio-Grade Capacitors • Thick Speaker Plates To Maintain Signal Quality • Gold-Plated Banana Plug-compatible Speaker Posts • Phono Input (MM) and Phono Equalizer

**T-4070**

Network Tuner

SILVER **BLACK**

- DIDRC (Dynamic Intermodulation Distortion Reduction Circuitry) • Internet Radio and Music Streaming Connectivity via Ethernet<sup>†</sup> • Streaming via AirPlay® for iPod touch/iPhone/iPad
- DLNA Version 1.5 Certification • Separate Wolfson® 192 kHz/24-bit DACs (WM8742 x 2) for L/R Channels • Direct Digital Connection of iPod/iPhone and Flash Memory Device via Front-Panel USB Port • Supports Onkyo Remote Apps for Control of Hi-Fi System via iPod touch/iPhone and Android™ Devices<sup>‡</sup> • FM/AM/DAB+ Tuner • 3 Digital Audio Outputs (Amphenol AES/EBU, Optical, and Coaxial) • Machined, Gold-Plated RCA, AES/EBU, and Coaxial Terminals
- WHD: 435 x 100 x 306.7 mm • 5.8 kg

**T-4030**

DAB+/DAB/FM Tuner

SILVER **BLACK**

- VLSC™ (Vector Linear Shaping Circuitry) • 40 DAB/DAB+ Presets • 40 FM Presets
- Digital Audio Outputs (Optical and Coaxial) • Analog Audio Output • FM Digital Output Capability • 192 kHz/24-bit DAC • FM Mono Mode for Weak Signals • High-Rigidity, Anti-Resonant Chassis to Prevent Vibrations • Audio Grade Capacitor • Automatic/Manual Tuning
- Preset Station Naming (Up to Eight Characters) • RI (Remote Interactive) System Control
- Battery-Free Memory Back-Up • WHD: 435 x 101.5 x 307 mm • 4.9 kg

**NS-6170**

Network Audio Player

SILVER **BLACK**

- Google Cast™, Wi-Fi®, and AirPlay® • 2 x USB Type-A Inputs (Front and Rear) for Mass-Storage Class HDD Connection • Onkyo Controller App for iOS and Android™<sup>‡</sup> Enables Network/HDD Song Selection and Control • FireConnect™ Multi-Room Wireless Technology • Dual-Differential AKM 768 kHz/32-bit AK4490 DACs for Left and Right Channels • Wideband DIDRC Filter Delivers Ultimate Hi-Res Audio Clarity • Separate Power-supply Paths for L/R Channels
- Custom E Transformer for Clean and Consistent Power Supply • Dedicated Heavy Duty Capacitors for L/R Channel DACs • Gold-plated Analog and Digital Audio Outputs • Anti-Resonant Full-Flat Chassis • WHD: 435 x 100 x 317 mm • 4.5 kg

**NS-6130**

Network Audio Player

SILVER **BLACK**

- Google Cast™, Wi-Fi®, and AirPlay® • Spotify®, TIDAL, Deezer, and TuneIn Streaming Services<sup>†</sup>
- 2 x USB Type-A Inputs (Front and Rear) for Mass-Storage Class HDD Connection
- Onkyo Controller App for iOS and Android™<sup>‡</sup> Enables Network/HDD Song Selection and Control • FireConnect™ Multi-Room Wireless Technology • High-Quality AKM AK4452 D/A Converter • VLSC™ D/A Conversion Enhancement Technology Removes Digital Pulse-Noise
- Symmetrical L/R Channel Layout • High-Quality Audio-Grade Circuit Components
- Aluminum Front Panel and Anti-Resonant Full-Flat Chassis
- WHD: 435 x 100 x 317 mm • 3.5 kg



**TX-8150**

Network Stereo Receiver



SILVER BLACK

- 135 W/Ch (6 Ω, 1 kHz, 1%, 1 Channel Driven, IEC)
- Non-Phase-Shift Amp Design for Realistic Sound Imaging
- Two Custom-Made 8,200 µF Hi-Current Capacitors
- AKM AK4452 384kHz/32-bit Hi-Grade DAC
- Built-in Wi-Fi® and Bluetooth® Audio Support
- Internet Radio and Music Streaming Subscription Services Included
- Compatible with Spotify and AirPlay®
- Supports Onkyo Remote App
- 4 Quick-Access BGM Presets
- DAB/DAB+ Tuner with 40 Station Presets
- Plays Music from Mass-Storage-Class USB Memory Devices



WRAT Direct Stream Digital DSD WiFi CERTIFIED Bluetooth Spotify DEEZER tunein DAB+ USB RI iPod iPhone iPad

**TX-8020**

Stereo Receiver



SILVER BLACK

- 90 W/Ch (6 Ω, 1 kHz, 1%, 1 Channel Driven, IEC)
- Discrete Amplifier Design with Massive EI Transformer
- High-Current, Low-Impedance Drive
- 3 Digital Audio Inputs (1 Optical and 2 Coaxial)
- 5 Analog Audio Inputs and 1 Output
- Phono Input (MM)
- Speaker A/B Terminals
- Subwoofer Pre-Out
- Independent Bass, Treble, and Balance Controls



WRAT RI

**C-N7050**

Network CD Player



SILVER BLACK

- Plays Audio CD, CD-R, CD-RW, MP3-Encoded CD-R/CD-RW, and WAV-Encoded CD-R/CD-RW
- Gapless Streaming of 2.8 MHz DSD/5.6 MHz DSD, 192 kHz/24-bit FLAC and WAV, and 96 kHz/24-bit ALAC Formats
- Control and Stream Audio from Mobile with Onkyo Remote App<sup>†</sup>
- iPod/iPhone-Certified Direct-Digital USB Input (Front)
- Includes vTuner Internet Radio Service
- Top-Quality TI Burr-Brown 192 kHz/32-bit DAC (PCM1795 x1)
- Floating 32-bit DSP Engine
- 2 USB Inputs (Front and Rear)
- 2 Digital Outputs (Optical and Coaxial)
- 3 Internet Radio Station Memory Presets with vTuner Bookmark Function



DSD Direct Stream Digital MP3 WMA vTuner VLSC 192kHz/32bit USB RI iPod iPhone

**DX-C390**

6-Disc CD Carousel Changer

BLACK SILVER

- Plays Audio CDs, MP3-Encoded CDs, CD-R/RWs
- VLSC™ (Vector Linear Shaping Circuitry)
- VQA (Vector Quantizer Audio) Conversion Technology
- Change up to 5 Discs During Play
- 192 kHz/24-bit Audio DAC
- Direct Digital Path
- 2 Digital Outputs (Optical and Coaxial)
- Next Selection Function
- Brushed Hairline Aluminum Front Panel
- WHD: 435 x 131 x 432 mm • 6.9 kg

**TX-8130**

Network Stereo Receiver



SILVER BLACK

- 110 W/Ch (6 Ω, 1 kHz, 1%, 1 Channel Driven, IEC)
- Non-Phase-Shift Amp Design for Realistic Sound Imaging
- Two Custom-Made 8,200 µF Hi-Current Capacitors
- AKM AK4452 384 kHz/32-bit Hi-Grade DAC
- Internet Radio and Music Streaming Subscription Services Included
- Compatible with Spotify
- Supports Onkyo Remote App
- 4 Quick-Access BGM Presets
- Plays Music from Mass-Storage-Class USB Memory Devices
- 2 Digital Audio Inputs (Optical and Coaxial)
- 6 Analog Audio Inputs and 1 Output
- MM Phono Input



WRAT Direct Stream Digital DSD Spotify DEEZER tunein 384kHz/32bit USB RI

**C-7070**

Compact Disc Player



SILVER BLACK

- Plays Audio CD, CD-R, CD-RW, MP3 CD, and WMA CD
- DIDRC (Dynamic Intermodulation Distortion Reduction Circuitry)
- Precision Clock (±10 ppm)
- Separate Wolfson® 192 kHz/24-bit DACs (WM8742 x 2) for L/R Channels
- Silent Disc Mechanism with Solid Die-Cast Aluminum Tray
- New Circuit Board Construction to Reduce Vibration
- Independent Headphone Amplifier
- Direct Digital Connection of iPod/iPhone and Flash Memory Devices via Front-Panel USB Port
- 2 Digital Outputs (Optical and Coaxial)
- Machined, Gold-Plated Audio Terminals



DIDRC 192kHz/32bit MP3 WMA USB RI iPod iPhone

**C-7030**

Compact Disc Player



SILVER BLACK

- Plays Audio CD, CD-R, CD-RW, MP3 CD, and WMA CD
- VLSC™ (Vector Linear Shaping Circuitry) for Pulse Noise Reduction
- Precision Clock (±10 ppm)
- 192 kHz/24-bit DAC
- Custom-Designed Massive EI Transformers
- Differential Headphone Amplifier Circuitry
- 25-Track Memory Playback
- Random and Repeat Playback Function
- 2 Digital Audio Outputs (Optical and Coaxial)
- Analog Audio Output
- 1.6 mm-Thick Anti-Vibration Full-Flat Chassis



VLSC 192kHz/32bit MP3 WMA RI



6DISC VLSC 192kHz/32bit VQA DIRECT DIGITAL PATH MP3 RI



## COMPACT STYLE MEETS FULL-SCALE SOUND

**R-N855**

Network Stereo Receiver

New for  
2016

SILVER BLACK

- Discrete 70 W x 70 W Amplifier • Plug and Play USB-HDD Server Function • Customized Massive EI Transformer
- Wireless Audio Streaming with Google Cast™, AirPlay®, Wi-Fi®, and Bluetooth® • Onkyo Controller App for iOS and Android™\*
- FireConnect™ Multi-Room Wireless Technology • Spotify, Deezer, TIDAL, and TuneIn • Phone Input (MM)
- Supports Hi-Res Audio • High-Rigidity Anti-Resonant Flat Chassis
- Aluminum Front Panel • WHD: 275 x 80 x 270 mm • 6.1 kg

**C-755**

Compact Disc Player

New for  
2016

SILVER BLACK

- Plays Audio CD, CD-R, CD-RW, and MP3 CD • Aluminum Front Panel • VLSC™ (Vector Linear Shaping Circuitry) for Pulse Noise Reduction • Customized Massive EI Transformer
- Precision Clock ( $\pm 10$  ppm) • AKM 192 kHz/24-bit D/A Converter • High-Rigidity Anti-Resonant Flat Chassis
- WHD: 275 x 80 x 270 mm • 3.4 kg

**CS-265**

CD Hi-Fi Mini System

WHITE BLACK RED LIGHT BLUE YELLOW

**CR-265** CD Receiver

- 20 W/Ch (6 Ω, 1 kHz, 10% THD, 2 Channels Driven, IEC)
- Efficient Digital Amplifier for Clear and Balanced Stereo Sound
- Bluetooth® Version 4.0 for Mobiles, Tablets, and PCs • Quick and Convenient NFC Connection for Bluetooth Streaming (NFC-compatible Devices Only)
- Plays Audio CD, CD-R, CD-RW, and MP3-Encoded CD • Front-Panel USB Port for iPod/iPhone/iPad and USB Flash Drives • FM Tuning with 30 Presets • 2-Mode Super Bass Function • WHD: 215 x 99 x 273 mm • 1.9 kg

**D-T25** 2-Way Bass Reflex Speakers

- 10 cm Cone Woofer • 2.0 cm Balanced-Dome Tweeter
- Non-Parallel Sides to Prevent Internal Standing Waves
- Magnetically Shielded • WHD: 130 x 210 x 176 mm • 1.7 kg

**CR-N765/CS-N765**

Network CD Receiver/Network Hi-Fi Mini System

SILVER BLACK BLACK BLACK

**CR-N765** Network CD Receiver

- 22 W/Ch (4 Ω, 1 kHz, 0.4%, 2 Channels Driven, IEC)
- Plays Audio CD, CD-R, and CD-RW • Playback of Audio Files via Local Network and USB (MP3, WMA, WMA Lossless, FLAC, WAV, Ogg Vorbis, AAC, LPCM, ALAC, 5.6 MHz DSD) • High-Resolution Gapless Playback Capability (FLAC, WAV, ALAC)
- Three-Stage Inverted Darlington Circuitry • Symmetrical Power Amplifier Circuit Design • High-Quality 768 kHz/32-bit Stereo DAC (AK4490) • Internet Radio and Music Streaming Service Connectivity\*<sup>#2</sup> • Control and Stream Audio from Mobile with Onkyo Remote App\*<sup>#3</sup> • Front-Panel USB Port for iPod/Phone or Flash Memory Device • Discrete Headphone Amplifier • WHD: 215 x 119 x 331 mm • 5.0 kg

**D-055** 2-Way Bass Reflex Speakers

- 12 cm N-OMF Diaphragm Woofer • 2.5 cm Soft-Dome Tweeter
- Center-Mounted Equalizer on Woofer for Clear Vocal Sound
- Black Rubber Finish for Speaker Baffle
- WHD: 154 x 245 x 258 mm • 3.6 kg

**CS-N1075**

Compact Hi-Fi System

New for  
2016

R-N855 Network Stereo Receiver

C-755 Compact Disc Player

D-175 2-Way Bass Reflex Speakers

- 13 cm N-OMF Diaphragm Woofer • 3 cm Ring Tweeter
- WHD: 170 x 283 x 260.4 mm • 4.3 kg



colibrino

**CS-265DAB**

CD Hi-Fi Mini System with Built-In DAB+ Tuner



BLACK WHITE



DISC DIGITAL AUDIO MP3 USB NFC Bluetooth iPod iPhone iPad

DAB+ DAB+ Tuning iPod iPhone iPad

**UWF-1**

Wireless LAN Adapter

BLACK



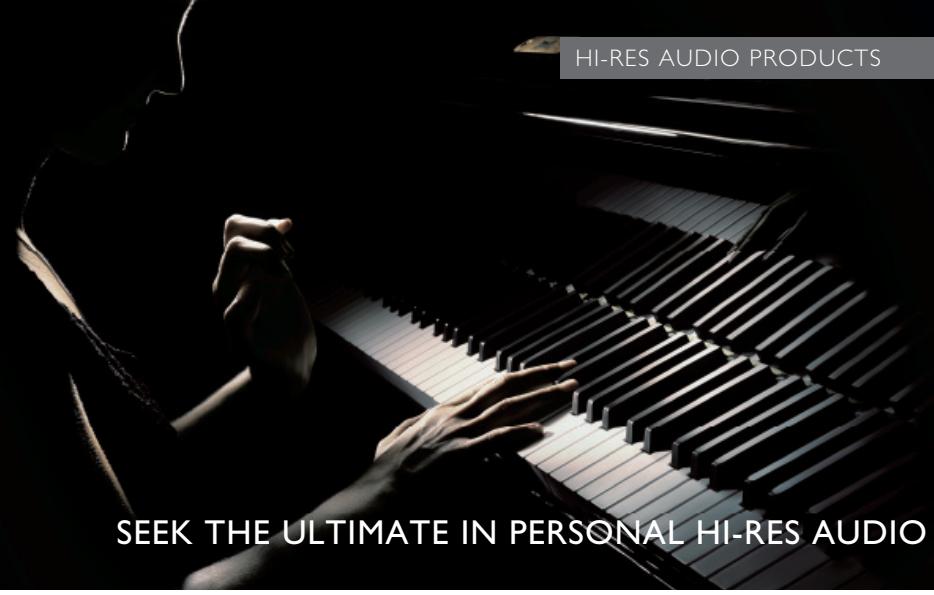
USB



- Provides Wireless Link to Network-Capable Onkyo A/V Receivers and Stereo Receivers • Connects Directly to Receiver via USB • Direct Audio Streaming via Wireless Router • 2.4 GHz Wireless Transmission Frequency
- WHD: 29.8 x 8.4 x 17.0 mm • 3.4 g

Note: The UWF-1 is compatible only with Onkyo receivers and does not connect directly with PCs. For more information, please visit the Onkyo website ([www.onkyo.com](http://www.onkyo.com)).





SEEK THE ULTIMATE IN PERSONAL HI-RES AUDIO

**DP-X1**

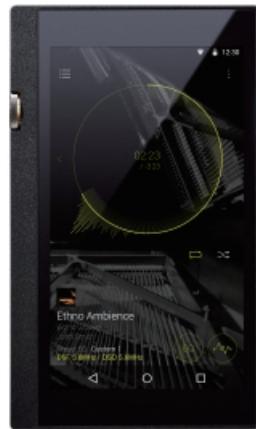
Digital Audio Player

New for  
2016

BLACK

- Dual ESS SABRE ES9018K2M DACs and SABRE 9601K Amps • Standard Balanced (BTL) and Active Control Ground (ACG) Modes • 2.5 mm 4-Pole and 3.5 mm 3-Pole Output • Audio Circuit Board (DAC/Amp) Separated from Main Circuit Board (CPU) • Closed Loop Circuit Design to Limit Noise • Physical Buttons for Quick Music Control
- Support for Up to 432 GB of Storage (200 GB micro SD slot x 2 and 32 GB Internal Storage)
- Support for MQA • Based on Android™ with Access to Google Play™ • Supports Wi-Fi® and Bluetooth® • Supports Qualcomm aptX
- Micro USB-B/OTG Digital Output
- WHD: 129.0 x 75.9 x 12.7 mm • 203 g

Bluetooth WiFi Qualcomm's aptX   
MQA DSD

**DAC-HA300**

D/A Converter/Headphone Amplifier/SD Player



BLACK

- MUSES 8920 Op-Amp and Fully Discrete Low-Distortion Push-Pull Output Circuitry for Brilliantly Clear and Immersive Hi-Fi Sound Quality • Supports 192 kHz/24-bit Hi-Res Audio and 5.6 MHz DSD Playback via iOS Devices (Lightning USB Cable and HF Player App Required\*), Android™ Devices (On-the-Go Cable and HF Player App Required\*\*), and PC/Mac\* (via Micro USB Type-B Input)
- Compatible with Most Major Hi-Res, Lossless, and Compressed Audio Formats • Supports 192 kHz/24-bit Hi-Res Audio from Connected Media Players via Digital Optical/Coaxial Switching Input
- Inbuilt Hi-Res Music Player with Up to 128 GB microSD Card Storage\* • Bright OLED Screen for Song Selection • Premium TI Burr-Brown 192 kHz/32-bit PCM1795 DAC Enables Asynchronous D/A Conversion for PC, Mac, and Android
- WHD: 69.6 x 21.5 x 123 mm • 280 g

\*1 Certified for iPhone 6, iPhone 5s, iPhone 5c, iPhone 5, iPod Retina (4th Generation), iPod Air, iPod mini, iPod mini Retina, and iPod touch (5th Generation or later). Full HF Player app functionality for Hi-Res Audio is available when iOS device is connected via USB cable. \*2 Requires Android 4.1 or later. Full HF Player app functionality is available when Android device is connected via USB cable. \*3 Connection to computer via USB is supported by Windows® Vista, Windows® 7, Windows® 8, Windows® 8.1, OS X Lion, OS X Mountain Lion 10.8, and OS X Mavericks 10.9. Functionality with other operating systems is not guaranteed. \*4 A microSD card is not included.



Made for

**DAC-HA200**

D/A Converter and Headphone Amplifier



BLACK

- MUSES 8920 Op-Amp with Discrete Low-Distortion Push-Pull Output Circuitry • Support for iOS Devices\* with Lightning Connector and AOA 2.0-Compliant Android™ Devices\* via USB Type-A Input • Asynchronous High-Resolution D/A Converter for PC, Mac, and Android via USB with High-Precision Clock to Reduce Jitter and Digital Noise\*<sup>3</sup> • Free Access Onkyo HD Player Pack When Connected to iOS Devices via USB • 96 kHz/24-bit-Capable Optical Digital Input • TI Burr-Brown PCM5102 DAC • WHD: 64 x 21.7 x 112 mm • 210 g

\*1 Certified for iPhone 5s, iPhone 5c, iPhone 5, iPod Retina (4th Generation), iPod Air, iPod mini, iPod mini Retina, and iPod touch (5th Generation).

\*2 Maximum output resolution for Android devices with AOA 2.0 is 48 kHz at 16-bit depth (Android 4.1 and later). \*3 Connection to computer via USB is supported by Windows® Vista, Windows® 7, Windows® 8, Windows® 8.1, OS X Snow Leopard 10.6.4 or later, OS X Lion, OS X Mountain Lion 10.8, and OS X Mavericks 10.9. Functionality with other operating systems is not guaranteed.



Made for

**HF Player App for iOS/Android™**  
Premium Audio Quality with Precision Equalization

## Free iOS and Android Versions

- High-precision EQ (16,384 discrete bands, linear-phase FIR filter)
- Create and save personalized EQ settings for different music
- Selectable EQ presets optimized by musicians for Onkyo headphones
- Automatic upsampling function
- Crossfade playback option

## HD Player Pack (iOS) and

## HF Player Unlocker (Android)

- Playback 192/24 and DSD 11.2 MHz
- Output Hi-Res Audio and DSD to compatible DAC/Amps via Lightning or OTG (On-the-Go) cables and DoP Output Mode
- Playlist creation function for Hi-Res library

## Supported Formats (iOS)

- MP3/AAC (Up to 48 kHz)
- DSF/DSD-IFF (Up to 11.2 MHz, PCM conversion, DoP), FLAC/ALAC/WAV/AIFF (Up to 384 kHz), and Ogg-Vorbis (Up to 192 kHz)\*

## Supported Formats (Android)

- MP3/AAC (Up to 48 kHz)
- DSF/DSD-IFF (Up to 11.2 MHz, PCM conversion, DoP)
- FLAC/ALAC/WAV/AIFF/Ogg-Vorbis (Up to 192 kHz)
- Paid version only.



iOS version pictured.

## A/V Receivers

SPECIFICATIONS														
AMPLIFIER SECTION	TX-RZ3100		TX-RZ1100		TX-RZ810		TX-RZ710		TX-NR656		TX-NR555	TX-SR444	TX-SR252	PR-RZ5100
Channels	11.2	9.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.1	5.1	11.2 (Pre-Outs Only)	
Power Output All Channels (except for subwoofers)	200 W/Ch (6 Ω, 1 kHz, 1%, 1 Channel Driven, IEC)	200 W/Ch (6 Ω, 1 kHz, 1%, 1 Channel Driven, IEC)	180 W/Ch (6 Ω, 1 kHz, 1%, 1 Channel Driven, IEC)	175 W/Ch (6 Ω, 1 kHz, 1%, 1 Channel Driven, IEC)	160 W/Ch (6 Ω, 1 kHz, 1%, 1 Channel Driven, IEC)	130 W/Ch (6 Ω, 1 kHz, 1%, 1 Channel Driven, IEC)	100 W/Ch (6 Ω, 1 kHz, 1%, 1 Channel Driven, IEC)	100 W/Ch (6 Ω, 1 kHz, 0.7%, 1 Channel Driven, IEC)	—	—	—	—	—	
Dynamic Power	320 W (3 Ω, Front) 270 W (4 Ω, Front) 160 W (8 Ω, Front)	320 W (3 Ω, Front) 270 W (4 Ω, Front) 160 W (8 Ω, Front)	300 W (3 Ω, Front) 250 W (4 Ω, Front) 130 W (8 Ω, Front)	250 W (3 Ω, Front) 220 W (4 Ω, Front) 120 W (8 Ω, Front)	240 W (3 Ω, Front) 210 W (4 Ω, Front) 85 W (8 Ω, Front)	160 W (3 Ω, Front) 125 W (4 Ω, Front) 85 W (8 Ω, Front)	160 W (3 Ω, Front) 125 W (4 Ω, Front) 85 W (8 Ω, Front)	160 W (3 Ω, Front) 125 W (4 Ω, Front) 85 W (8 Ω, Front)	—	—	—	—	—	
THD+N (Total Harmonic Distortion + Noise)	0.04% (1 kHz, 100 W)	0.04% (1 kHz, 100 W)	0.08% (20 Hz–20 kHz, Half Power)	0.08% (20 Hz–20 kHz, Half Power)	0.08% (20 Hz–20 kHz, Half Power)	0.08% (20 Hz–20 kHz, Half Power)	0.08% (20 Hz–20 kHz, Half Power)	0.08% (20 Hz–20 kHz, Half Power)	0.06% (20 Hz–20 kHz)	0.06% (20 Hz–20 kHz)	—	—	—	
Input Sensitivity and Impedance	200 mV/82 kΩ (Line) 3.5 mV/47 kΩ (Phono MM)	200 mV/82 kΩ (Line) 3.5 mV/47 kΩ (Phono MM)	200 mV/47 kΩ (Line) 3.5 mV/47 kΩ (Phono MM)	200 mV/47 kΩ (Line) 3.5 mV/47 kΩ (Phono MM)	200 mV/47 kΩ (Line) 3.5 mV/47 kΩ (Phono MM)	200 mV/47 kΩ (Line) 3.5 mV/47 kΩ (Phono MM)	200 mV/47 kΩ (Line) 3.5 mV/47 kΩ (Phono MM)	200 mV/47 kΩ (Line) 3.5 mV/47 kΩ (Phono MM)	250 mV/47 kΩ (Line)	200 mV/82 kΩ (Line) 3.5 mV/47 kΩ (Phono MM)	200 mV/82 kΩ (Line) 3.5 mV/47 kΩ (Phono MM)	200 mV/82 kΩ (Line) 3.5 mV/47 kΩ (Phono MM)		
Rated RCA Output Level and Impedance	1.0 V/330 Ω (Pre Out) 1.0 V/330 Ω (Subwoofer Pre Out) 200 mV/1.2 kΩ (Zone Out) 2.0 V/1.2 kΩ (Zone Pre Out)	1.0 V/330 Ω (Pre Out) 1.0 V/330 Ω (Subwoofer Pre Out) 200 mV/1.2 kΩ (Zone Out) 2.0 V/1.2 kΩ (Zone Pre Out)	1.0 V/470 Ω (Pre Out) 1.0 V/470 Ω (Subwoofer Pre Out) 200 mV/2.3 kΩ (Zone Out) 2.0 V/2.3 kΩ (Zone Pre Out)	1.0 V/470 Ω (Pre Out) 1.0 V/470 Ω (Subwoofer Pre Out) 200 mV/2.3 kΩ (Zone Line Out) 2.0 V/2.3 kΩ (Zone Pre Out)	1.0 V/470 Ω (Subwoofer Pre Out) 200 mV/2.3 kΩ (Zone 2 Line Out) 1.0 V/470 Ω (Subwoofer Pre Out)	1.0 V/470 Ω (Subwoofer Pre Out) 200 mV/2.3 kΩ (Zone 2 Line Out) 1.0 V/470 Ω (Subwoofer Pre Out)	1.0 V/470 Ω (Pre Out) 1.0 V/470 Ω (Subwoofer Pre Out)	—	—	200 mV/1.2 kΩ (Zone Line Out) 2 V/1.2 kΩ (Zone Pre Out) 1.0 V/330 Ω (Pre Out/Subwoofer Pre Out)	200 mV/1.2 kΩ (Zone Line Out) 2 V/1.2 kΩ (Zone Pre Out) 1.0 V/330 Ω (Pre Out/Subwoofer Pre Out)			
Rated XLR Output Level and Impedance	—	—	—	—	—	—	—	—	—	—	—	2.0 V/220 Ω (Pre Out)		
Phono Overload	70 mV (MM, 1 kHz, 0.5%)	70 mV (MM, 1 kHz, 0.5%)	70 mV (MM, 1 kHz, 0.5%)	70 mV (MM, 1 kHz, 0.5%)	70 mV (MM, 1 kHz, 0.5%)	—	—	—	70 mV (MM, 1 kHz, 0.5%)					
Tone Control	Bass ±10 dB, 100 Hz Treble ±10 dB, 10 kHz	Bass ±10 dB, 100 Hz Treble ±10 dB, 10 kHz	Bass ±10 dB, 90 Hz Treble ±10 dB, 7.5 kHz	Bass ±10 dB, 90 Hz Treble ±10 dB, 7.5 kHz	Bass ±10 dB, 90 Hz Treble ±10 dB, 7.5 kHz	Bass ±10 dB, 90 Hz Treble ±10 dB, 7.5 kHz	Bass ±10 dB, 90 Hz Treble ±10 dB, 20 kHz	Bass ±10 dB, 90 Hz Treble ±10 dB, 10 kHz	—	—	—	±10 dB, 100 Hz ±10 dB, 10 kHz		
Signal-to-Noise Ratio	108 dB (Line, IHF-A) 90 dB (Phono MM, IHF-A)	108 dB (Line, IHF-A) 90 dB (Phono MM, IHF-A)	106 dB (Line, IHF-A) 80 dB (Phono MM, IHF-A)	106 dB (Line, IHF-A) 80 dB (Phono MM, IHF-A)	106 dB (Line, IHF-A) 80 dB (Phono MM, IHF-A)	106 dB (Line, IHF-A) 80 dB (Phono MM, IHF-A)	100 dB (Line, IHF-A)	98 dB (Line, IHF-A)	110 dB (Line, IHF-A) 80 dB (Phono MM, IHF-A)	110 dB (Line, IHF-A) 80 dB (Phono MM, IHF-A)	110 dB (Line, IHF-A) 80 dB (Phono MM, IHF-A)	110 dB (Line, IHF-A) 80 dB (Phono MM, IHF-A)		
Speaker Impedance	4 Ω – 16 Ω	4 Ω – 16 Ω	6 Ω – 16 Ω	6 Ω – 16 Ω	6 Ω – 16 Ω	6 Ω – 16 Ω	6 Ω – 16 Ω	6 Ω – 16 Ω	6 Ω – 16 Ω	6 Ω – 16 Ω	—	—		
VIDEO SECTION														
Input Sensitivity/Output Level and Impedance	1.0 Vp-p/75 Ω (Component Y) 0.7 Vp-p/75 Ω (Component Pa/Cs, Pr/Cs) 1.0 Vp-p/75 Ω (Composite)	1.0 Vp-p/75 Ω (Component Y) 0.7 Vp-p/75 Ω (Component Pa/Cs, Pr/Cs) 1.0 Vp-p/75 Ω (Composite)	1.0 Vp-p/75 Ω (Component Y) 0.7 Vp-p/75 Ω (Component Pa/Cs, Pr/Cs) 1.0 Vp-p/75 Ω (Composite)	1.0 Vp-p/75 Ω (Component Y) 0.7 Vp-p/75 Ω (Component Pa/Cs, Pr/Cs) 1.0 Vp-p/75 Ω (Composite)	1.0 Vp-p/75 Ω (Component Y) 0.7 Vp-p/75 Ω (Component Pa/Cs, Pr/Cs) 1.0 Vp-p/75 Ω (Composite)	1.0 Vp-p/75 Ω (Component Y) 0.7 Vp-p/75 Ω (Component Pa/Cs, Pr/Cs) 1.0 Vp-p/75 Ω (Composite)	1.0 Vp-p/75 Ω (Component Y) 0.7 Vp-p/75 Ω (Component Pa/Cs, Pr/Cs) 1.0 Vp-p/75 Ω (Composite)	1.0 Vp-p/75 Ω (Component Y) 0.7 Vp-p/75 Ω (Component Pa/Cs, Pr/Cs) 1.0 Vp-p/75 Ω (Composite)	1.0 Vp-p/75 Ω (Monitor Out)	1.0 Vp-p/75 Ω (Component Y) 0.7 Vp-p/75 Ω (Component Pa/Cs, Pr/Cs) 1.0 Vp-p/75 Ω (Composite)	1.0 Vp-p/75 Ω (Component Y) 0.7 Vp-p/75 Ω (Component Pa/Cs, Pr/Cs) 1.0 Vp-p/75 Ω (Composite)			
Component Video Frequency Response	5 Hz–100 MHz/+0 dB, -3 dB	—	5 Hz–100 MHz/+0 dB, -3 dB	+0 dB, -3 dB	+0 dB, -3 dB	+0 dB, -3 dB	+0 dB, -3 dB	+0 dB, -3 dB	5 Hz–13.5 MHz/+0 dB, -3 dB	—	—	—		
TUNER SECTION														
Tuning Frequency Range	FM 87.5 MHz–108 MHz AM 522 kHz–1,611 kHz	87.5 MHz–108 MHz 522 kHz–1,611 kHz	87.5 MHz–108 MHz 522 kHz–1,611 kHz / 530 kHz–1,710 kHz	87.5 MHz–108 MHz 522 kHz–1,611 kHz / 530 kHz–1,710 kHz	87.5 MHz–108 MHz 522 kHz–1,611 kHz / 530 kHz–1,710 kHz	87.5 MHz–108 MHz 522 kHz–1,611 kHz / 530 kHz–1,710 kHz	87.5 MHz–108 MHz 522 kHz–1,611 kHz / 530 kHz–1,710 kHz	87.5 MHz–108 MHz 522 kHz–1,611 kHz / 530 kHz–1,710 kHz	87.5 MHz–108 MHz 522 kHz–1,611 kHz / 530 kHz–1,710 kHz	87.5 MHz–108 MHz 522 kHz–1,611 kHz / 530 kHz–1,710 kHz	87.5 MHz–108 MHz 522 kHz–1,611 kHz / 530 kHz–1,710 kHz			
Preset Memory	40 Stations	40 Stations	40 Stations	40 Stations	40 Stations	40 Stations	40 Stations	40 Stations	30 Stations	30 Stations	40 Stations			
GENERAL														
Power Supply	AC 220–230 V~, 50/60 Hz	AC 220–230 V~, 50/60 Hz	AC 220–240 V~, 50/60 Hz	AC 220–240 V~, 50/60 Hz	AC 220–240 V~, 50/60 Hz	AC 220–240 V~, 50/60 Hz	AC 220–240 V~, 50/60 Hz	AC 220–240 V~, 50/60 Hz	AC 220–240 V~, 50/60 Hz	AC 220–240 V~, 50/60 Hz	AC 220–230 V~, 50/60 Hz			
Power Consumption	340 W	320 W	710 W	600 W	570 W	450 W	420 W	165 W	65 W	—	—			
No-Sound Power Consumption	—	—	—	—	65 W	55 W	—	—	—	—	—			
Standby Power Consumption	0.15 W	0.15 W	0.15 W	0.15 W	0.15 W	0.15 W	0.15 W	0.3 W	0.45 W	—	—			
Dimensions (W x H x D)	435 x 201 x 453 mm	435 x 201 x 453 mm	435 x 201.5 x 395 mm	435 x 177 x 378 mm	435 x 173.5 x 378 mm	435 x 160 x 328 mm	435 x 168 x 326.5 mm	435 x 201 x 447.5 mm	—	—	—			
Weight	19.7 kg	19.7 kg	14.0 kg	10.5 kg	10.0 kg	9.6 kg	8.0 kg	7.3 kg	13.6 kg	—	—			

## Integrated Amplifiers

SPECIFICATIONS										
	A-9000R		A-9070		A-9050		A-9030		A-9010	
Power Output	140 W/Ch (4 Ω, 20 Hz–20 kHz, 0.05%, 2 Channels Driven, IEC)	140 W/Ch (4 Ω, 20 Hz–20 kHz, 0.05%, 2 Channels Driven, IEC)	75 W/Ch (8 Ω, 20 Hz–20 kHz, 0.05%, 2 Channels Driven, IEC)	75 W/Ch (8 Ω, 1 kHz, 0.08%, 2 Channels Driven, IEC)	65 W/Ch (8 Ω, 1 kHz, 0.08%, 2 Channels Driven, IEC)	65 W/Ch (8 Ω, 1 kHz, 0.08%, 2 Channels Driven, IEC)	44 W/Ch (8 Ω, 1 kHz, 0.08%, 2 Channels Driven, IEC)	44 W/Ch (8 Ω, 1 kHz, 0.08%, 2 Channels Driven, IEC)	44 W/Ch (8 Ω, 1 kHz, 0.08%, 2 Channels Driven, IEC)	44 W/Ch (8 Ω, 1 kHz, 0.08%, 2 Channels Driven, IEC)
Dynamic Power	450 W (1 Ω), 310 W (2 Ω), 230 W (3 Ω), 180 W (4 Ω), 100 W (8 Ω)	450 W (1 Ω), 310 W (2 Ω), 230 W (3 Ω), 180 W (4 Ω), 100 W (8 Ω)	450 W (1 Ω), 310 W (2 Ω), 230 W (3 Ω), 180 W (4 Ω), 100 W (8 Ω)	—	—	—	—	—	—	—
THD+N (Total Harmonic Distortion + Noise)	0.006% (Half Power) 0.03% (1 kHz, 1 W Output) 0.008% (20 Hz–20 kHz, Half Power) 0.03% (20 Hz–20 kHz, 1 W Output)	0.006% (Half Power) 0.03% (1 kHz, 1 W Output) 0.008% (20 Hz–20 kHz, Half Power) 0.03% (20 Hz–20 kHz, 1 W Output)	0.008% (1 kHz, 1 W Output) 0.08% (20 Hz–20 kHz, 1 W Output)	0.08% (1 kHz, 1 W Output)	0.08% (1 kHz, 1 W Output)	0.08% (1 kHz, 1 W Output)	0.08% (1 kHz, 1 W Output)	0.08% (1 kHz, 1 W Output)	0.08% (1 kHz, 1 W Output)	0.08% (1 kHz, 1 W Output)
Input Sensitivity and Impedance	150 mV/47 kΩ (Line) 2.25 mV/47 kΩ (Phono MM) 0.18 mV/100 Ω (Phono MC)	150 mV/47 kΩ (Line) 2.25 mV/47 kΩ (Phono MM) 0.18 mV/100 Ω (Phono MC)	150 mV/47 kΩ (Line) 2.25 mV/47 kΩ (Phono MM) 0.18 mV/100 Ω (Phono MC)	175 mV/33 kΩ (Line) 4.8 mV/47 kΩ (Phono MM)	175 mV/33 kΩ (Line) 4.8 mV/47 kΩ (Phono MM)	175 mV/33 kΩ (Line) 4.8 mV/47 kΩ (Phono MM)	150 mV/100 kΩ (Line) 3.0 mV/47 kΩ (Phono MM)	150 mV/100 kΩ (Line) 3.0 mV/47 kΩ (Phono MM)	150 mV/100 kΩ (Line) 3.0 mV/47 kΩ (Phono MM)	
Rated RCA Output Level and Impedance	1 V/300 Ω (Pre Out)	1 V/300 Ω (Pre Out)	1 V/300 Ω (Pre Out)	0.175 V/2.2 kΩ (Rec Out)	0.175 V/2.2 kΩ (Rec Out)	0.175 V/2.2 kΩ (Rec Out)	0.15V/2.2 kΩ (Line Out)	0.15V/2.2 kΩ (Line Out)	0.15V/2.2 kΩ (Line Out)	
Maximum RCA Output Level and Impedance	5 V/300 Ω (Pre Out)	5 V/300 Ω (Pre Out)	5 V/300 Ω (Pre Out)	—	—	—	—	—	—	—
Phono Overload	70 mV (MM, 1 kHz, 0.5%) 5.2 mV (MC, 1 kHz, 0.5%)	70 mV (MM, 1 kHz, 0.5%) 5.2 mV (MC, 1 kHz, 0.5%)	100 mV (MM, 1 kHz, 0.5%)	100 mV (MM, 1 kHz, 0.5%)	100 mV (MM, 1 kHz, 0.5%)	100 mV (MM, 1 kHz, 0.5%)	94 mV (MM, 1 kHz, 0.5%)	94 mV (MM, 1 kHz, 0.5%)	94 mV (MM, 1 kHz, 0.5%)	
Frequency Response	10 Hz–100 kHz/+0 dB, -1 dB (1 W, Line) 1 Hz–250 kHz/+0 dB, -3 dB (1 W, 8 Ω)	10 Hz–100 kHz/+0 dB, -1 dB (1 W, Line) 1 Hz–250 kHz/+0 dB, -3 dB (1 W, 8 Ω)	10 Hz–100 kHz/+1 dB, -3 dB (Line 1)	10 Hz–100 kHz/+1 dB, -3 dB (Line 1)	10 Hz–100 kHz/+1 dB, -3 dB (Line 1)	10 Hz–100 kHz/+1 dB, -3 dB (Line 1)	10 Hz–100 kHz/+1 dB, -3 dB (Line 1)	10 Hz–100 kHz/+1 dB, -3 dB (Line 1)	10 Hz–100 kHz/+1 dB, -3 dB (Line 1)	
Tone Control	±10 dB, 80 Hz (Bass) ±10 dB, 10 kHz (Treble)	±10 dB, 80 Hz (Bass) ±10 dB, 10 kHz (Treble)	±10 dB, 80 Hz (Bass) ±10 dB, 10 kHz (Treble)	±14 dB, 100 Hz (Bass) ±14 dB, 10 kHz (Treble) +8 dB, 80 Hz (PM Bass)	±14 dB, 100 Hz (Bass) ±14 dB, 10 kHz (Treble) +8 dB, 80 Hz (PM Bass)	±14 dB, 100 Hz (Bass) ±14 dB, 10 kHz (Treble) +8 dB, 80 Hz (PM Bass)	±10 dB, 100 Hz (Bass) ±10 dB, 10 kHz (Treble)	±10 dB, 100 Hz (Bass) ±10 dB, 10 kHz (Treble)	±10 dB, 100 Hz (Bass) ±10 dB, 10 kHz (Treble)	
Signal-to-Noise Ratio	107 dB (Line, IHF-A) 60 dB (Phono MM, IHF-A) 70 dB (Phono MC, IHF-A)	107 dB (Line, IHF-A) 60 dB (Phono MM, IHF-A) 70 dB (Phono MC, IHF-A)	110 dB (Line, IHF-A) 80 dB (Phono MM, IHF-A)	110 dB (Line, IHF-A) 80 dB (Phono MM, IHF-A)	105 dB (Line, IHF-A) 80 dB (Phono MM, IHF-A)	105 dB (Line, IHF-A) 80 dB (Phono MM, IHF-A)	92 dB (Line, IHF-A) 78 dB (Phono MM, IHF-A)	92 dB (Line, IHF-A) 78 dB (Phono MM, IHF-A)	92 dB (Line, IHF-A) 78 dB (Phono MM, IHF-A)	
Speaker Impedance	4 Ω–16 Ω (A or B) 8 Ω–16 Ω (A + B)	4 Ω–16 Ω (A or B) 8 Ω–16 Ω (A + B)	4 Ω–16 Ω (A or B) 8 Ω–16 Ω (A + B)	4 Ω–16 Ω (A or B) 8 Ω–16 Ω (A + B)	4 Ω–16 Ω (A or B) 8 Ω–16 Ω (A + B)	4 Ω–16 Ω (A or B) 8 Ω–16 Ω (A + B)	4 Ω–16 Ω (A or B) 8 Ω–16 Ω (A + B)	4 Ω–16 Ω (A or B) 8 Ω–16 Ω (A + B)	4 Ω–16 Ω (A or B) 8 Ω–16 Ω (A + B)	
Power Supply	AC 230 V~, 50 Hz	AC 230 V~, 50 Hz	AC 230 V~, 50 Hz	AC 220–230 V~, 50/60 Hz	AC 220–230 V~, 50/60 Hz	AC 220–230 V~, 50/60 Hz	AC 220–240 V~, 50/60 Hz	AC 220–240 V~, 50/60 Hz	AC 220–240 V~, 50/60 Hz	
Power Consumption	300 W	290 W	160 W	160 W	135 W	135 W	155 W	155 W	155 W	
No-Sound Power Consumption	—	—	—	—	—	—	25 W	25 W	25 W	
Standby Power Consumption	0.2 W	0.2 W	0.3 W	0.3 W	0.3 W	0.3 W	0.4 W	0.4 W	0.4 W	
Dimensions (W x H x D)	435 x 175 x 435 mm	435 x 174.5 x 431 mm	435 x 139 x 330.3 mm	435 x 139 x 330.3 mm	435 x 139 x 330.3 mm	435 x 139 x 330.3 mm	435 x 129.5 x 332.5 mm	435 x 129.5 x 332.5 mm	435 x 129.5 x 332.5 mm	
Weight	18.5 kg	18.1 kg	8.2 kg	8.2 kg	7.4 kg	7.4 kg	6.5 kg	6.5 kg	6.5 kg	

## 9-Channel Amplifier

SPECIFICATIONS		PA-MCS501
Power Output	All Channels	220 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, IEC)
Dynamic Power		400 W (3 Ω, Front) 300 W (4 Ω, Front) 180 W (8 Ω, Front)
THD (Total Harmonic Distortion)		0.05% (Rated Power)
Input Sensitivity and Impedance		1 V/47 kΩ (Balanced) 2 V/22 kΩ (Unbalanced)
Frequency Response		5 Hz–100 kHz/+1 dB, -3 dB
Signal-to-Noise Ratio		110 dB (Unbalanced, IHF-A)
Speaker Impedance		4 Ω–16 Ω or 6 Ω–16 Ω
Power Supply		AC 220–240 V~, 50/60 Hz
Power Consumption		1,050 W
Dimensions (W x H x D)		435 x 198.5 x 446.5 mm
Weight		22.0 kg

## BD Players

SPECIFICATIONS		BD-SP809	BD-SP353
Frequency Range (Digital Audio)	BD	4 Hz–88 kHz (192 kHz)	—
	DVD Linear Sound	4 Hz–44 kHz (96 kHz), 4 Hz–22 kHz (48 kHz)	—
	Audio CD	4 Hz–20 kHz (44.1 kHz)	—
S/N Ratio (Digital Audio)		100 dB	—
Audio Dynamic Range (Digital Audio)		98 dB	—
THD (Digital Audio)		0.005% (1 kHz)	—
Wow and Flutter		Below threshold of measurability	—
Composite Video Output/Impedance		1.0 Vp-p/75 Ω	—
Component Video Output/Impedance		Y: 1.0 Vp-p/75 Ω Pg/R: 0.7 Vp-p/75 Ω	—
Component Video Frequency Response		5 Hz–50 MHz	—
Audio Output/Impedance	Digital (Optical)	-22.5 dBm	—
	Digital (Coaxial)	0.5 Vp-p/75 Ω	—
	Analog Audio	2.0 V (rms)/more than 1 kΩ	—
Power Supply		AC 110–240 V~, 50/60 Hz	AC 110–240 V~, 50/60 Hz
Power Consumption		23 W	13 W
Quick Standby Power Consumption		—	1 W
Standby Power Consumption		—	0.3 W
Dimensions (W x H x D)		435 x 104 x 313 mm	435 x 58 x 249 mm
Weight		4.7 kg	2.0 kg

## Stereo Amplifiers

SPECIFICATIONS		M-5000R	P-3000R
Power Output (2-Ch Stereo)	150 W/Ch (4 Ω, 20 Hz–20 kHz, 0.05%, 2 Channels Driven, IEC) 80 W/Ch (8 Ω, 20 Hz–20 kHz, 0.05%, 2 Channels Driven, IEC)	—	—
	170 W/Ch (4 Ω, 1 kHz, 1%, 2 Channels Driven, IEC) 100 W/Ch (8 Ω, 1 kHz, 1%, 2 Channels Driven, IEC)	—	—
Power Output (BTL Mono)	220 W/Ch (4 Ω, 20 Hz–20 kHz, 0.05%, 1 Channel Driven, IEC) 180 W/Ch (8 Ω, 20 Hz–20 kHz, 0.05%, 1 Channel Driven, IEC) 250 W/Ch (4 Ω, 1 kHz, 1%, 1 Channel Driven, IEC) 200 W/Ch (8 Ω, 1 kHz, 1%, 1 Channel Driven, IEC)	—	—
Dynamic Power	460 W (1 Ω), 320 W (2 Ω), 245 W (3 Ω), 196 W (4 Ω), 142 W (6 Ω), 110 W (8 Ω)	—	—
THD+N (Total Harmonic Distortion + Noise)	0.005% (1 kHz, Half Power) 0.02% (20 Hz–20 kHz, Half Power)	0.005% (20 Hz–20 kHz, Half Power)	—
Input Sensitivity and Impedance	1.4 V/10 kΩ (BTL) 700 mV/10 kΩ (RCA)	200 mV/47 kΩ (Line) 2.7 mV/47 kΩ (Phone MM)	—
Frequency Response	10 Hz–100 kHz/0 dB, -1 dB (1 W) 1 Hz–250 kHz/3 dB (1 W/8 Ω)	5 Hz–100 kHz/0 dB, -3 dB (Line)	—
Signal-to-Noise Ratio	110 dB (RCA, IHF-A)	110 dB (Direct, IHF-A) 80 dB (Phone, MM)	—
Speaker Impedance	4 Ω–16 Ω 6 Ω–16 Ω (BTL)	—	—
Power Supply	AC 230 V~, 50 Hz	AC 230 V~, 50 Hz	—
Power Consumption	280 W	29 W	—
Dimensions (W x H x D)	435 x 187.5 x 432.5 mm	435 x 99 x 333.1 mm	—
Weight	23.5 kg	11.0 kg	—

## Stereo Receivers

SPECIFICATIONS		TX-8150	TX-8130	TX-8020
Power Output	135 W/Ch (6 Ω, 1 kHz, 1%, 1 Channel Driven, IEC)	110 W/Ch (6 Ω, 1 kHz, 1%, 1 Channel Driven, IEC)	90 W/Ch (6 Ω, 1 kHz, 1%, 1 Channel Driven, IEC)	—
Dynamic Power	190 W/Ch (3 Ω) 170 W/Ch (4 Ω) 110 W/Ch (8 Ω)	170 W/Ch (3 Ω) 150 W/Ch (4 Ω) 90 W/Ch (8 Ω)	180 W/Ch (3 Ω) 160 W/Ch (4 Ω) 100 W/Ch (8 Ω)	—
THD+N (Total Harmonic Distortion + Noise)	0.08% (20 Hz–20 kHz, Half Power)	0.08% (20 Hz–20 kHz, Half Power)	0.03% (20 Hz–20 kHz, Half Power)	—
Input Sensitivity and Impedance	200 mV/47 kΩ 3.5 mV/47 kΩ	200 mV/47 kΩ 3.5 mV/47 kΩ	200 mV/47 kΩ 2.5 mV/47 kΩ	—
Rated RCA Output Level and Impedance	1 V/680 Ω (Subwoofer Pre Out)	1 V/680 Ω (Subwoofer Pre Out)	200 mV/2.2 kΩ (Rec Out)	—
Maximum RCA Output Level and Impedance	—	—	2.0 V/2.2 kΩ (Rec Out)	—
Phono Overload	70 mV (MM, 1 kHz, 0.5%)	70 mV (MM, 1 kHz, 0.5%)	70 mV (MM, 1 kHz, 0.5%)	—
Frequency Response	10 Hz–100 kHz/+1 dB, -3 dB (Direct/Pure Audio Mode)	10 Hz–100 kHz/+1 dB, -3 dB (Direct Mode)	10 Hz–100 kHz (+1 dB, -3 dB)	—
Tone Control	±10 dB, 100 Hz (Bass) ±10 dB, 10 kHz (Treble)	±10 dB, 100 Hz (Bass) ±10 dB, 10 kHz (Treble)	±11 dB, 100 Hz (Bass) ±11 dB, 10 kHz (Treble)	—
Signal-to-Noise Ratio	106 dB (IHF-A, Line In, Speaker Out) 80 dB (IHF-A, Phono In, Speaker Out)	106 dB (IHF-A, Line In, Speaker Out) 80 dB (IHF-A, Phono In, Speaker Out)	100 dB (IHF-A, Line) 80 dB (IHF-A, Phono MM)	—
Speaker Impedance	4 Ω–16 Ω	4 Ω–16 Ω	4 Ω–16 Ω (A or B), 8 Ω–16 Ω (A + B)	—
Headphone Output Impedance	390 Ω	390 Ω	390 Ω	—
Headphone Rated Output	200 mW (32 Ω, 1 kHz, 10%)	200 mW (32 Ω, 1 kHz, 10%)	200 mW (32 Ω, 1 kHz, 10%)	—
Tuning Frequency Range	87.5 MHz–108 MHz	87.5 MHz–108 MHz	87.5 MHz–108 MHz 522 kHz–1,611 kHz	87.5 MHz–108 MHz 522 kHz–1,611 kHz
Power Supply	AC 220–230 V~, 50/60 Hz	AC 220–230 V~, 50/60 Hz	AC 220–230 V~, 50/60 Hz	AC 230 V~, 50 Hz
Power Consumption	220 W	200 W	170 W	—
Standby Power Consumption	0.2 W	0.2 W	0.25 W	—
No-Sound Power Consumption	45 W	45 W	35 W	—
Network Standby Power Consumption	2.9 W	2.0 W	—	—
Dimensions (W x H x D)	435 x 149 x 328 mm	435 x 149 x 328 mm	435 x 150 x 328 mm	—
Weight	8.6 kg	7.9 kg	7.3 kg	—

## CD/Network Audio Players

SPECIFICATIONS		C-7000R	C-7070	C-N7050	C-7030	NS-6170	NS-6130
Frequency Response	2 Hz–20 kHz	2 Hz–20 kHz	10 Hz–70 kHz	4 Hz–20 kHz	4 Hz–70 kHz (192 kHz/24-bit)	4 Hz–70 kHz (192 kHz/24-bit)	—
Signal-to-Noise Ratio	116 dB	116 dB	115 dB	107 dB	112 dB (192 kHz/24-bit, LPF 22 kHz, A-Weight, 1 kHz)	112 dB (192 kHz/24-bit, LPF 22 kHz, A-Weight, 1 kHz)	—
Dynamic Range	100 dB	100 dB	108 dB	100 dB	114 dB (192 kHz/24-bit, LPF 22 kHz, A-Weight, 1 kHz)	111 dB (192 kHz/24-bit, LPF 22 kHz, A-Weight, 1 kHz)	—
THD (Total Harmonic Distortion)	0.0015%	0.0025%	0.003%	0.0029%	0.002% (192 kHz/24-bit, LPF 22 kHz, 1 kHz)	0.002% (192 kHz/24-bit, LPF 22 kHz, 1 kHz)	—
Audio Output/Impedance	Optical Coaxial Analog	— — —	— — —	— — —	0.5 Vp-p/75 Ω 0.5 Vp-p/75 Ω 2 V (rms)/470 Ω	— — 2 V (rms)/470 Ω	— — —
Power Supply	AC 230 V~, 50 Hz	AC 230 V~, 50 Hz	AC 220–240 V~, 50 Hz	AC 220–240 V~, 50/60 Hz	AC 220–240 V~, 50 Hz	AC 220–240 V~, 50 Hz	AC 220–240 V~, 50 Hz
Power Consumption	18 W	23 W	30 W	12 W	37 W	22 W	—
Dimensions (W x H x D)	435 x 99 x 315.2 mm	435 x 101 x 306 mm	435 x 102 x 302 mm	435 x 101 x 306 mm	435 x 100 x 317 mm	435 x 100 x 317 mm	—
Weight	12.0 kg	6.4 kg	4.6 kg	5.3 kg	4.5 kg	3.5 kg	—



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